

From: [Adams, Adam](#)
To: [Delgado, Eric](#); [Crossland, Ronnie](#)
Cc: [Smith, Monica](#); [Smalley, Bryant](#); [Daniel Tighe](#); [Loesel, Matthew](#); [Mason, Steve](#)
Subject: FW: Update of Air Section Activities - 3/19/2019 5AM-2PM (Draft/Deliberative/Confidential)
Date: Tuesday, March 19, 2019 5:16:35 PM

Here's draft TCEQ ground monitoring data.
Do we want this incorporated with EPA database?

Thanks
Adam

From: spill12 <spill12@tceq.texas.gov>
Sent: Tuesday, March 19, 2019 5:13 PM
To: Loesel, Matthew <loesel.matthew@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>
Subject: Fw: Update of Air Section Activities - 3/19/2019 5AM-2PM (Draft/Deliberative/Confidential)

From: Corbett Brinly
Sent: Tuesday, March 19, 2019 5:07 PM
To: spill12
Cc: Nicole Bealle; Andy Goodridge; Jason Ybarra; Alma Jefferson; Warda Omar; Amy Messick; Joseph Doby; Jonathan Walling
Subject: Update of Air Section Activities - 3/19/2019 5AM-2PM (Draft/Deliberative/Confidential)

All,

As of 2:00 p.m., on March 19, 2019, the Air Section has received 62 complaints, 21 of which have been referred to the City of Houston, 35 of which have been referred to Harris County Pollution Control Services, and 6 that will be addressed by the Air Section.

Below are notes from the odor surveys and air monitoring conducted by Air Section investigators on March 19, 2019. Beginning at approximately 5:20 a.m., two teams conducted air monitoring utilizing MultiRAEs (LEL, VOC, H2S, CO, O2) and TVAs (VOCs). Moderate to strong heavy oil like odors were detected from approximately 1:00 p.m. until 2:00 p.m. in the Woodland Acres area. No health effects were experienced by the investigators. No readings of concern were detected with the instruments. The investigators left the area at approximately 2:00 p.m. upon being relieved by the next shift of investigators.

The Air Section will provide the next update with the information from the odor surveys and

monitoring being conducted on March 19, 2019, from approximately 2:00 p.m. until 10:00 p.m.

All meteorological data was obtained from the TCEQ Lynchburg Ferry continuous air monitoring station.

Two teams of Air Investigators left the Office at approximately 5:10 a.m.

Team 1 (David Broussard, Sai Garlapati)

Location 1: Herman Park

Arrival time: 5:25 a.m.

Depart time: 5:37 a.m.

Odors: No odors detected

TVA readings: 4.2 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 3.9 miles per hour (mph)

Resultant Wind Direction: 9 degrees

Temperature: 55.2 degrees Fahrenheit (F)

Location 2: Intersection of North Shepard and Crosstimbers

Arrival time: 6:00 a.m.

Depart time: 6:20 a.m.

Odors: No odors detected

TVA readings: 1.1 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.5 mph

Resultant Wind Direction: 10 degrees

Temperature: 54.4 F

Location 3: Intersection of Irvington and Crosstimbers

Arrival time: 6:32 a.m.

Depart time: 6:50 a.m.

Odors: No odors detected

TVA readings: 0.5 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.5 mph

Resultant Wind Direction: 10 degrees

Temperature: 54.4 F

Location 4: Pelham Park

Arrival time: 7:20 a.m.

Depart time: 7:50 a.m.

Odors: No odors detected

TVA readings: 4.6 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.8 mph

Resultant Wind Direction: 13 degrees

Temperature: 53.9 F

Location 5: Intersection of Homestead and Bennington roads

Arrival time: 7:55 a.m.

Depart time: 8:25 a.m.

Odors: Very light burning plastic odor detected intermittently for a total of five minutes during 30-minute odor survey.

TVA readings: 0.1 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.8 to 6.2 mph

Resultant Wind Direction: 13 to 34 degrees

Temperature: 53.9 to 54 F

Location 6: Smith Park in Jacinto City

Arrival time: 8:40 a.m.

Depart time: 9:10 a.m.

Odors: No odors detected

TVA readings: 0.1 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.3 to 6.2 mph

Resultant Wind Direction: 32 to 34 degrees

Temperature: 54 to 55.9 F

Location 7: Channelwood Park in Channelview

Arrival time: 9:24 a.m.

Depart time: 10:45 a.m.

Odors: No odors detected

TVA readings: 0.0 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.3 to 9.7 mph

Resultant Wind Direction: 32 to 49 degrees

Temperature: 55.9 to 59.6 F

Location 8: Washburn Tunnel Roundabout [North of the tunnel]

Arrival time: 11:20 a.m.

Depart time: 12:50 p.m.

Odors: No odors detected

TVA readings: 0.3 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 9.9 to 13.6 mph

Resultant Wind Direction: 74 to 101 degrees

Temperature: 62.4 to 64.4 F

Location 9: Intersection of Myrtle and Miles Roads [In Woodland Acres Area]

Arrival time: 1:03 p.m.

Depart time: 2:03 p.m.

Odors: Moderate to strong heavy oil like odors were consistently detected while at the location.

TVA readings: 0.5 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 10.9 mph

Resultant Wind Direction: 104 degrees

Temperature: 66.3 F

Team 2 (Tricia Lestarjette, Neil Billeaudeaux)

Location 1: Cleveland Park on Scotland Street

Arrival time: 5:23 a.m.

Depart time: 5:42 a.m.

Odors: No odors detected

TVA readings: no readings taken

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 3.9 mph

Resultant Wind Direction: 9 degrees

Temperature: 55.2 F

Location 2: Love Park (North Shepherd and 12th)

Arrival time: 5:54 a.m.

Depart time: 6:10 a.m.

Odors: No odors detected

TVA readings: none readings taken

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 3.9 to 5.5 mph

Resultant Wind Direction: 9 to 10 mph

Temperature: 55.2 to 54.4 F

Location 3: Moody Park

Arrival time: 6:23 a.m.

Depart time: 6:42 a.m.

Odors: No odors detected

TVA readings: 3.5 ppm - 3.6 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.5 mph

Resultant Wind Direction: 10 degrees

Temperature: 54.4 F

Location 4: Tuffly Park

Arrival time: 6:59 a.m.

Depart time: 8:01 a.m.

Odors: No odors detected

TVA readings: 4.1 ppm to 6.21 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.5 to 6.2 mph

Resultant Wind Direction: 10 to 34 degrees

Temperature: 53.9 to 54.4 F

Location 5: Park Lane and Vince Street, Pasadena

Arrival time: 8:30 a.m.

Depart time: 8:55 a.m.

Odors: No odors detected

TVA readings: 4.1 ppm to 4.3 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 6.2 mph

Resultant Wind Direction: 34 degrees

Temperature: 54 F

Location 6: Community Drive and Coleman Ave, Pasadena

Arrival time: 9:05 a.m.

Depart time: 9:45 a.m.

Odors: gasoline/acetone/fried food oil odor (34 min survey, 5 minutes of very light odors)

TVA readings: 4.1 ppm to 4.2 ppm

Multi-RAE readings: 20.9% O₂, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H₂S

Wind Speed: 5.3 mph

Resultant Wind Direction: 32 degrees

Temperature: 55.9 F

Location 7: back to Community Drive and Coleman Ave, Pasadena

Arrival time: 10:30 a.m.

Depart time: 10:51 a.m.

Odors: No odors detected

TVA readings: 4.2 ppm - 4.3 ppm

Multi-RAE readings: 20.9% O2, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H2S

Wind Speed: 9.7 mph

Resultant Wind Direction: 49 degrees

Temperature: 59.6 F

Location 8: Jimmy Burke Activity Center, Deer Park

Arrival time: 11:10 a.m.

Depart time: 12:26 p.m.

Odors: Very light smoke/cooking oil odors detected for 15 minutes during a 60-minute odor survey

TVA readings: 4.2 - 4.4 ppm

Multi-RAE readings: 20.9% O2, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H2S

Wind Speed: 9.9 to 13.6 mph

Resultant Wind Direction: 74 to 101 degrees

Temperature: 62.4 to 64.4

Location 9: Mason Park, Tipp's Street, Houston

Arrival time: 1:06 p.m.

Depart time: 2:27 p.m.

Odors: No odors detected

TVA readings: 4.6-4.7 ppm

Multi-RAE readings: 20.9% O2, 0% LEL, 0 ppm VOC, 0 ppm CO, 0 ppm H2S

Wind Speed: 10.9 mph

Resultant Wind Direction: 104 degrees

Temperature: 66.3 F

From: Joseph Doby

Sent: Tuesday, March 19, 2019 5:52 AM

To: spill12 <spill12@tceq.texas.gov>

Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge

<Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Alma

Jefferson <Alma.Jefferson@tceq.texas.gov>; Warda Omar <Warda.Omar@Tceq.Texas.Gov>;

Amy Messick <amy.messick@tceq.texas.gov>; Corbett Brinly <Corbett.Brinly@tceq.texas.gov>

Subject: FW: Update of Air Section Activities from 3/18/2019 (Draft/Deliberative/Confidential)

Below is the summary of monitoring being conducted by the Air Section Staff yesterday evening (3/18). The staff have been coordinating with the Monitoring Division personnel in the field. Air Section staff arrived in the field this morning (3/19) and started conducting surveys around 5:20 a.m. We will provide another update of monitoring activities later in the day.

Joe Doby
Air Section Manager
TCEQ Region 12 – Houston
Ph: 713-422-8943
Fax: 713-767-3520

From: Corbett Brinly
Sent: Monday, March 18, 2019 11:33 PM
To: UPSET12 <UPSET12@tceq.texas.gov>
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Joseph Doby <joe.doby@tceq.texas.gov>; Warda Omar <Warda.Omar@Tceq.Texas.Gov>; Amy Messick <amy.messick@tceq.texas.gov>
Subject: Update of Air Section Activities from 3/18/2019 (Draft/Deliberative/Confidential)

All,

As of 4:55 p.m., on March 18, 2019, the Air Section has received and referred 26 complaints to Harris County Pollution Control Services related to this incident. The vast majority of the complaints did not allege odors, but did allege various health effects, such as headache, burning/watering eyes, itchy skin, etc. Despite coming through the agency's complaint email, some of these 26 contacts were inquiries that did not allege impacts. We are in the process of identifying these non-complaint contacts.

Below are notes from the odor surveys and air monitoring conducted in west and central Houston by Air Section investigators on March 18, 2019. Beginning at approximately 3:10 p.m., two teams conducted air monitoring utilizing MultiRAEs (LEL, VOC, H2S, CO, O2) and a TVA (VOCs). No odors attributed to the plume were detected. No readings of concern were detected with the instruments. The investigators left the area around 10:00 p.m. The information summary has been shared with the Monitoring Division personnel who are currently conducting monitoring in the Houston Region.

The Air Section plans to dispatch two teams of two investigators each at approximately 4:30 a.m., March 19, 2019, to conduct additional odor surveys and air monitoring.

All meteorological data was obtained from the TCEQ Lynchburg Ferry continuous air monitoring station.

Two teams of Air Investigators left the Office at approximately 2:30 p.m.

Team 1 (Daniel Villarreal, Katharine Jones)

Location 1: 15913 Jersey Village Dr., Jersey Village, TX 77040

Arrival time: 3:10 p.m.

Depart time: 3:45 p.m.

Odors: No unusual odors noted

Multi-RAE readings: Normal: 20.9% O₂, 0% LEL, 0ppm VOC, 0 ppm CO

Wind Speed: 14.2 miles per hour (mph)

Resultant Wind Direction: 73 degrees

Temperature: 65.3 degrees Fahrenheit (F)

Location 2: 3600 Locke Ln, Houston, TX 77027

Arrival time: 4:22 p.m.

Depart time: 6:15 p.m.

Odors: Exhaust, intermittent, likely due to vehicle traffic.

Multi-RAE readings: Normal

Wind Speed: 8.6 to 13 mph

Resultant Wind Direction: 84 to 127 degrees

Temperature: 63 to 65.5 F

Location 3: 7301 Stella Link Rd, Houston, TX 77025

Arrival time: 6:43 p.m.

Depart time: 7:23 p.m.

Odors: No odors detected

Multi-RAE readings: Normal

Wind Speed: 7 to 8.6 mph

Resultant Wind Direction: 127 to 145 degrees

Temperature: 60.1 to 63 F

Location 4: 3743 Garnet St., Houston, TX 77005

Arrival time: 7:39 p.m.

Depart time: 8:13 p.m.

Odors: None

Multi-RAE readings: Normal

Wind Speed: 4.4 to 7 mph
Resultant Wind Direction: 134 to 145 degrees
Temperature: 59.4 to 60.1 F

Location 5: 3801 Eastside St., Houston, TX 77098
Arrival time: 8:37 p.m.
Depart time: 9:15 p.m.
Odors: None
Multi-RAE readings: Normal
Wind Speed: 4.4 to 4.3 mph
Resultant Wind Direction: 134 to 124 degrees
Temperature: 59.4 to 59.2 F

Location 6: 200 Jackson Hill St. Houston, TX 77007
Arrival time: 9:40 p.m.
Depart time: 10:05 p.m.
Odors: None
TVA readings: NA
Multi-RAE readings: Normal
Wind Speed: 4.3 mph
Resultant Wind Direction: 124 degrees
Temperature: 59.2 F

Team 2 (Andrew “Jay” Evans, Corbin Hennick)

Location 1: 5800 Richmond Ave. (Corner of Richmond Ave. And Bering Dr.)
Arrival time: 4:23 p.m.
Depart time: 4:55 p.m.
Odors: None detected
TVA readings: Less than 3.0 ppm (consistent with expected background readings)
Multi-RAE readings: Normal
Wind Speed: 11.8 mph
Resultant Wind Direction: 89 degrees
Temperature: 65.5 F

Location 2: 5235 Glenmont Dr. (Corner of Glenmont and Royalton St.)
Arrival time: 5:15 p.m.
Depart time: 5:48 p.m.
Odors: None detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal (O2- sensor failure)

Wind Speed: 13 mph
Resultant Wind Direction: 84 degrees
Temperature: 65.5 F

Location 3: Glenmont Dr. @ Sunburst Ct.
Arrival time: 6:00 p.m.
Depart time: 6:35 p.m.
Odors: No odors detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal
Wind Speed: 8.6 mph
Resultant Wind Direction: 127 degrees
Temperature: 63 F

Location 4: Bissonnet @ North Avenue B
Arrival time: 6:40 p.m.
Depart time: 7:15 p.m.
Odors: No odors detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal
Wind Speed: 7 to 8.6 mph
Resultant Wind Direction: 127 to 145 degrees
Temperature: 60.1 to 63 F

Location 5: Jane Street @ Baldwin Avenue
Arrival time: 7:45 p.m.
Depart time: 8:15 p.m.
Odors: No odors detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal
Wind Speed: 4.4 to 7 mph
Resultant Wind Direction: 134 to 145 degrees
Temperature: 59.4 to 60.1 F

Location 6: McArthur Drive @ Mont Clair Drive
Arrival time: 8:30 p.m.
Depart time: 9:00 p.m.
Odors: No odors detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal
Wind Speed: 4.4 mph

Resultant Wind Direction: 134 degrees
Temperature: 59.4 F

Location 7: Hermann Park @ Gate 8
Arrival time: 9:20 p.m.
Depart time: 10:00 p.m.
Odors: No odors detected
TVA readings: Less than 3.0 ppm
Multi-RAE readings: Normal
Wind Speed: 4.3 mph
Resultant Wind Direction: 124 degrees
Temperature: 59.2 F

From: Corbett Brinly
Sent: Monday, March 18, 2019 7:30 PM
To: spill12 <Spill12@tceq.texas.gov>
Cc: Nicole Bealle <Nicole.Bealle@tceq.texas.gov>; Andy Goodridge <Andy.Goodridge@tceq.texas.gov>; Jason Ybarra <Jason.Ybarra@tceq.texas.gov>; Joseph Doby <Joe.Doby@tceq.texas.gov>; Alma Jefferson <Alma.Jefferson@tceq.texas.gov>; Westin Massey <Westin.Massey@tceq.texas.gov>
Subject: Initial Update of Air Section Activities on 3/18/2019

Good evening,

At approximately 1430, on March 18, 2019, four Air Section investigators departed the Houston Region office to conduct odor surveys and monitoring with two MultiRAEs and a TVA in support of the Monitoring Division. As of 1900, the locations surveyed have included Jersey Village and various locations around the Galleria. No odors attributable to the smoke plume have been detected by the investigators, and no readings of concern have been noted with the Air Section's monitoring equipment. The Air Section currently plans to dispatch four investigators at 0430, on March 19, 2019, to conduct additional odor surveys and monitoring. A final update of Air Section activities for March 18, 2019, will be sent after 2200.

Corbett